



COUNTY OFFICES
 Alleghany: (336) 372-5641
 Ashe: (336) 246-3356
 Watauga: (828) 264-4995

Construction Authorization

APPALACHIAN DISTRICT
 126 Poplar Grove Connector
 Boone, NC 28607
 Phone: 336-246-3356

For Office Use Only

*CDP File Number **241575 - 1**
 County ID Number: 15235-089
 Evaluated For: **EXPANSION**

PERMIT VALID UNTIL: 08/10/2022

Applicant: Miller, Stephen S.

Address: 241 Esther Road

City: Roxboro

State/Zip: NC 27573

Phone #: cell:(336) 599-6339

Property Owner: Miller, Stephen S.

Address: 241 Esther Road

City: Roxboro

State/Zip: NC. 27573

Phone #: (336) 599-6339

Property Location & Site Information

Address/Road #: Water Tank Road Fleetwood, NC 28626 Subdivision: _____ Phase: NEW Lot: _____

Structure: SINGLE FAMILY **Directions** Highway 221 South to Fleetwood. Turn Left on Water Tank Road. go approx .2 miles to site across creek on right.

of Bedrooms: 3

of People: 6

*Water Supply: SPRINGS

System Specifications

<p>*Site Classification: <u>Provisionally Suitable</u></p> <p>Design Flow: <u>120</u></p> <p>Soil Application Rate: <u>0.5000</u></p> <p>*System Classification//Description: <u>TYPE III B. SYSTEM W/SINGLE EFFLUENT PUMP</u></p> <p>*Proposed System: <u>25% REDUCTION</u></p> <p>Nitrification Field <u>240</u> Sq. ft.</p> <p>No. Drain Lines <u>1</u></p> <p>Total Trench Length: <u>60</u> ft.</p> <p>Trench Spacing: <u>9</u> - <input type="radio"/> Inches O.C. <input checked="" type="radio"/> Feet O.C.</p> <p>Trench Width: <u>36</u> - <input checked="" type="radio"/> Inches <input type="radio"/> Feet</p> <p>Aggregate Depth: _____ inches</p>	<p>Minimum Trench Depth: <u>14</u> Inches</p> <p>Minimum Soil Cover: <u>10</u> Inches</p> <p>Maximum Trench Depth: <u>14</u> Inches</p> <p>Maximum Soil Cover: <u>10</u> Inches</p> <p>*Distribution Type: <u>GRAVITY - SERIAL</u></p> <p>Septic Tank: <u>1,000</u> Gallons</p> <p>1-Piece: <input type="radio"/> Yes <input type="radio"/> No</p> <p>Pump Required: <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> May Be Required</p> <p>Pump Tank: <u>1,000</u> Gallons</p> <p>1-Piece: <input type="radio"/> Yes <input type="radio"/> No</p> <p><u>23</u> GPM --vs-- <u>25</u> ft. TDH</p> <p>Dosing Volume: <u>78</u> Gallons</p> <p>Grease Trap: _____ Gallons</p> <p>Pre-Treatment: <input type="radio"/> NSF <input type="radio"/> TS-I <input type="radio"/> TS-II</p> <p>Septic Tank Installer Grade Level Required: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III <input type="radio"/> IV</p>
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Repair System

*Site Classification: PS Drip w/Pretreat

Design Flow: 360

Soil Application Rate: 0.250

*System Classification/Description:
TYPE V A. SAND FILTER PRETREATMENT

*Proposed System: OTHER

Nitrification Field 1,440 Sq. ft.

No. Drain Lines

Total Trench Length: ft.

Trench Spacing: 2 -

Trench Width: 6 -

Aggregate Depth: Inches

Minimum Trench Depth: 6 Inches

Minimum Soil Cover: 6 Inches

Maximum Trench Depth: 6 Inches

Maximum Soil Cover: 6 Inches

*Distribution Type: DRIP

Pump Required: Yes No May Be Required

Pre-Treatment: NSF TS-I TS-II

- Inches O.C.
- Feet O.C.
- Inches
- Feet

***Site Modifications**

No grading or construction activity is allowed in areas designated for system and repair without approval of Health Department.

Expanding an existing 2 bedroom to 3 (360 gpd).

Residence water supplied by spring > 100 feet from septic.

See site plan and attached pump specification materials. Set floats to pump 4 inches draw down. 10 feet of 4 inch pvc leading into tank from forcemain.

***Permit Conditions**

The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements.

Install trench level at 14 inches lower sidewall, follow contour of slope. Fall not to exceed 1/4 inch per 10 feet. Cover entire system with 10 inches clean fill.

Tanks and system to be > 50 feet from creek, > 5 feet from foundations/footers and > 15 feet from basement cuts.

Tanks to be certified water tight by manufacture (provide documentation to HD) or must under go 24 hour leak test onsite.

This Authorization for Wastewater System Construction shall be valid for a person equal to the period of validity of the Improvement Permit, not to exceed five years, and may be issued at the same time the Improvement Permit issued (NCGS 130A-336(b)). If the installation has not been completed during the period of validity of the Construction Permit, the information submitted in the application for a permit or Construction Authorization is found to have been incorrect, falsified or changed, or the site is altered, the permit or Construction Authorization shall become invalid, and may be suspended or revoked (.1937(g)). The person owning or controlling the system shall be responsible for assuring compliance with the laws, rules, and permit conditions regarding system location, installation, operation, maintenance, monitoring, reporting and repair

Applicant/Legal Resps. Signature Required? Yes No

Applicant/Legal Reps. Signature: Job Hopfl

Date: 8/15/17

*Issued By: Blethen, Andrew

Date of Issue: 08/10/2017

Authorized State Agent: [Signature]

Malfunction Log Yes

Hand Drawing

Import Drawing

Total Time:(HH:MM)

****Site Plan/Drawing attached.****

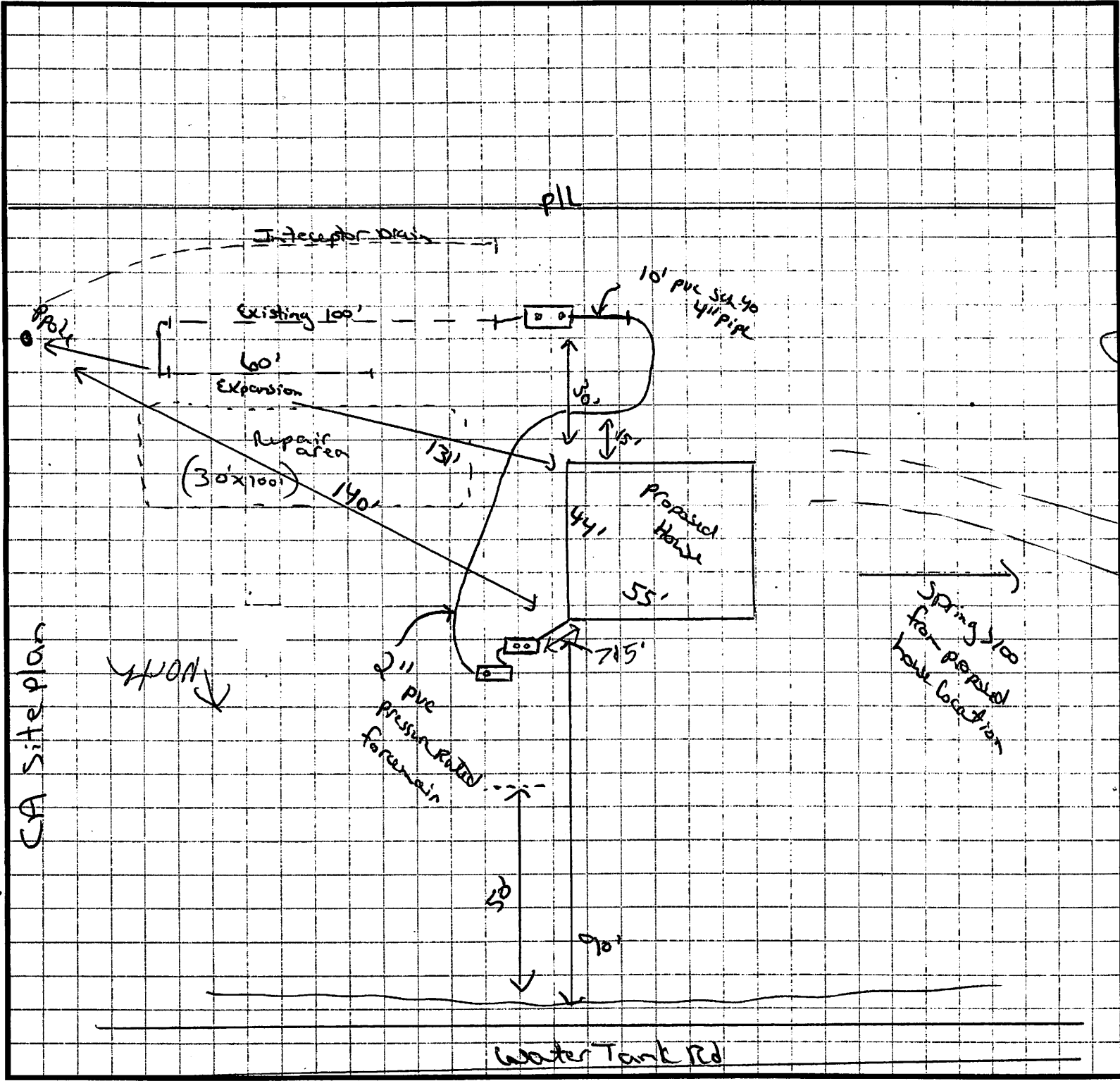
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APPALACHIAN DISTRICT HEALTH DEPARTMENT
Allegheny (336) 372-8813 Ashe (336) 246-3356 Watauga (828) 264-4995

SITE PLAN

WELL PERMIT # _____ ONSITE WASTEWATER PERMIT # 241575-1

NAME Stephen Miller Well _____ Septic AS



[Signature]
ENVIRONMENTAL HEALTH SPECIALIST

8/12/17
DATE

[Signature]
AGENT/APPLICANT

8/15/17
DATE



IMPROVEMENT PERMIT

APPALACHIAN DISTRICT
126 Poplar Grove Connector
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*CDP File Number 241575 - 1
County ID Number: 15235-089
Evaluated For: EXPANSION

PERMIT VALID UNTIL: 08/10/2022

***NOTE TO INSPECTIONS DIVISION:** Building Permits cannot be issued with this Improvement Permit.

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Property Location & Site Information

Address/Road #: Water Tank Road Fleetwood, NC 28626 Subdivision: _____ Phase: NEW Lot: _____

Directions
Highway 221 South to Fleetwood. Turn Left on Water Tank Road. go approx .2 miles to site across creek on right.

Structure: SINGLE FAMILY

of Bedrooms: 3

of People: 6

*Water Supply: SPRINGS

System Specifications

Initial System

*Site Classification: Provisionally Suitable Minimum Trench Depth: 14 Inches

Design Flow: 120 Maximum Trench Depth: 14 Inches

Soil Application Rate: 0.5000 Septic Tank: 1000 Gallons

*System Classification/Description:
TYPE II A. CONV SYSTEM (SINGLE-FAMILY OR 480 GPD OR LESS)

1-Piece: Yes No

Pump Required: Yes No May Be Required

*Proposed System:
25% REDUCTION

Pump Tank: 1000 Gallons

1-Piece Yes No

Repair System Required: Yes No No, but has Available Space

Repair System

*Site Classification: PS Drip Minimum Trench Depth: 6 Inches

Soil Application Rate: 0.250 Maximum Trench Depth: 6 Inches

*System Classification/Description:
TYPE V A. SAND FILTER PRETREA

Pump Required: Yes No May Be Required

*Proposed System:
OTHER

***Site Modifications**

No grading or construction activity is allowed in areas designated for system and repair without approval of Health Department.
Residence connecting to spring > 100 feet from septic/repair areas.

***Permit Conditions**

The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements.

See CA for installation details and site plan. Expanding existing 2 bedroom system to accommodate 3.

Pumping to existing 1000 septic tank. Expanding drain lines.

Site Plan



The Improvement Permit shall be valid for 5 years from date of issue with a site plan (means a drawing not necessarily drawn to scale that shows the existing and proposed property lines with dimensions, the location of the facility and appurtenances,

Plat



The Improvement Permit shall be valid without expiration with plat (means a property surveyed prepared by a registered land surveyor, drawn to a scale of one inch equals no more than 60 feet, that includes: the specific location of the proposed facility and appurtenances, the site for the proposed Wastewater system, and the location of water supplies and surface waters. Plat also means, for subdivision lots approved by the local planning authority and recorded with the county register of deeds, a copy

The Department and Local Health Department may impose conditions on the issuance and may revoke the permits for failure of the system to satisfy the conditions, the rules, or this article. This permit is subject to revocation if the site plan, plat, or intended use changes (NCGS 130a-355(f)). The person owning or controlling the system shall be responsible for assuring compliance with the laws, rules, and permit conditions regarding system location, installation, operation, maintenance, monitoring,

Applicant/Legal Reps. Signature Required *

Yes No

Applicant/Legal Reps. Signature:

Job Hopson

Date: 8/15/17

*Issued By: Blethen, Andrew

Date of Issue: 08/10/2017

Authorized State Agent:

[Signature]

Valid without Expiration ?

Hand Drawing

Import Drawing

****Site Plan/Drawing attached.****

JP

Appalachian District
Health Department

SOIL/SITE EVALUATION FOR
ON-SITE WASTE WATER

Applicant: Stephen Miller
DATE EVAL.: 7/25/17 Permit # 241576
Location: Water Seal RC2

Design Flow: 360
PLAT DATE: _____

Property Size 14 ac
EVAL. BY: AUGER ✓
PIT _____

FACTORS		PROFILES <u>p. 75</u>									
		1	2	3	4	5	6	7	8	9	10
LANDSCAPE POSITION	.1940	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
SLOPE (%)	.1940										
HORIZON 1 DEPTH		0-28	0-14	0-25	0-27	0-30"	0-4	0-6	0-7	0-5	0-8
TEXTURE GROUP	.1941(A)(1)	CL	L	L	L	L	L	L	L	L	L
CONSISTENCE	.1941	Rock		Rocky	Rocky	Rocky	Fr	Fr	Fr	Fr	Fr
STRUCTURE	.1941(A)(2)						Cr	Cr	Cr	Cr	Cr
MINEROLOGY	.1941(A)(3)						SE	SE	SE	SE	SE
HORIZON 2 DEPTH		28-40	24	25-41		230	4-28	6-29	7-33/38	24+	8-28
TEXTURE GROUP	.1941(A)(1)		Rock	S		WR	L	SL	SL		SL
CONSISTENCE	.1941					Rock	Fr	Fr	Fr		
STRUCTURE	.1941(A)(2)					Cr	Sbl	Sbl	Ushl		
MINEROLOGY	.1941(A)(3)						SE	SE	SE		
HORIZON 3 DEPTH							28-42	29-48	33-48		
TEXTURE GROUP	.1941(A)(1)							SL	SL		
CONSISTENCE	.1941										
STRUCTURE	.1941(A)(2)										
MINEROLOGY	.1941(A)(3)								wetness		
HORIZON 4 DEPTH											
TEXTURE GROUP	.1941(A)(1)										
CONSISTENCE	.1941										
STRUCTURE	.1941(A)(2)										
MINEROLOGY	.1941(A)(3)										
SOIL WETNESS	.1942	28±		30"	20"	30	28	SWC	33/38	24"	
RESTRICTIVE HORIZON	.1944	Rock		Rock	Rock	Rock		23-29			
SAPROLITE	.1943/.1956	Rock									
CLASSIFICATION	.1948	U	US					us		omp	
L.T.A.R	.1955						0.5	0.6	0.5		
MAXIMUM TRENCH DEPTH											
EHS INITIALS											
AVAILABLE SPACE (.1945):							L.T.A.R. : (Initial)		(Repair)		
OTHER FACTORS (.1946):							MAX. TRENCH DEPTH: (Initial)		(Repair)		
SITE CLASSIFICATION (.1948):							SYSTEM TYPE: (Initial)		(Repair)		
COMMENTS:	<p>hole 1 = too rocky to evaluate</p> <p>Need pits due to rock & wetness conditions</p> <p>Pits on 8/10/17</p>										

LEGEND

use the following standard abbreviations

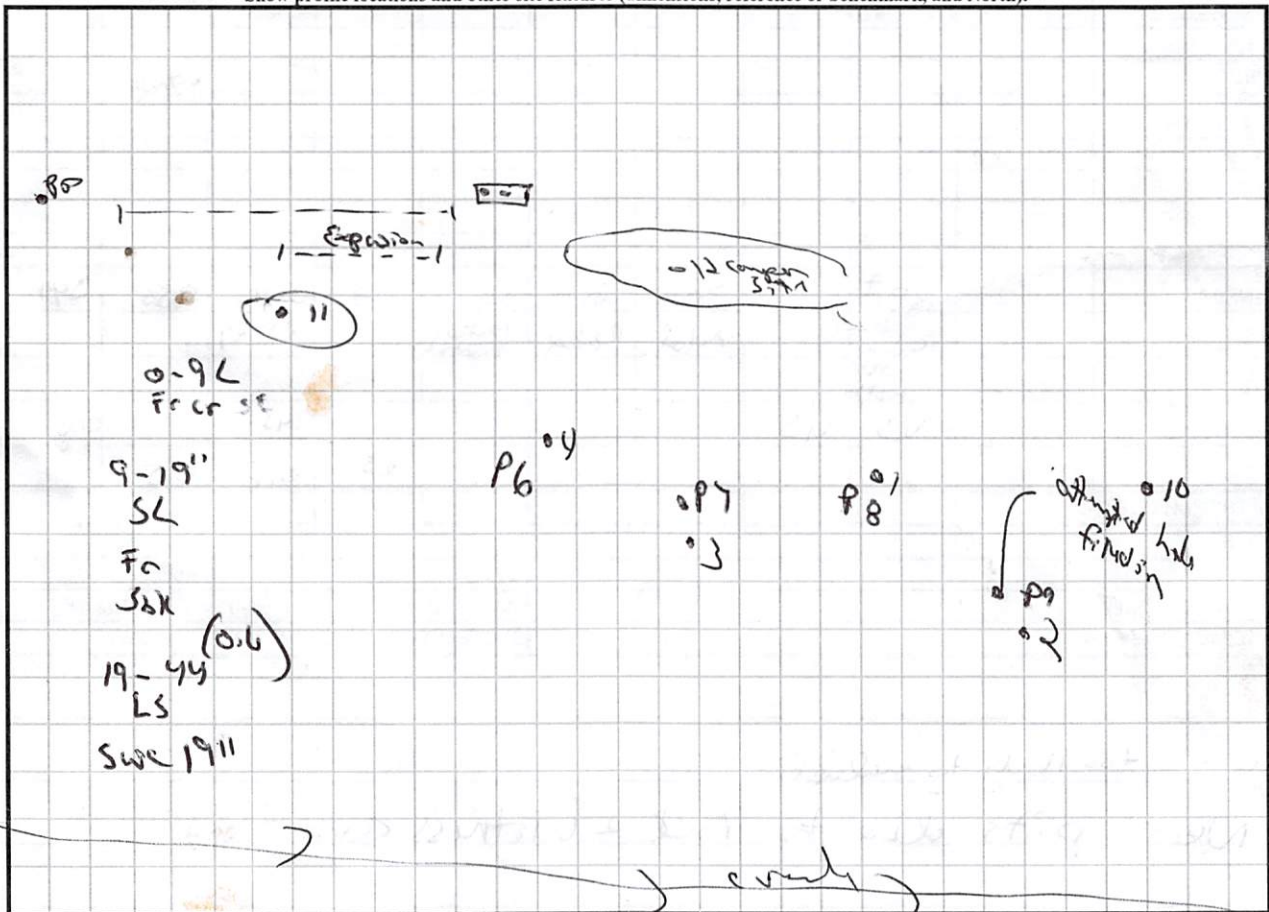
LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)				M (Massive)
D (Drainage Way)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		CR (Crumb)
DS (Debris Slump)		L (Loam)				GR (Granular)
FP (Flood Plain)						SBK (Subangular Blocky)
FS (Foot Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		ABK (Angular Blocky)
H (Head Slope)		SiCL (Silty Clay Loam)				PL (Platy)
L (Linear Slope)		CL (Clay Loam)				PR (Prismatic)
N (Nose Slope)		SCL (Sandy Clay Loam)				
R (Ridge)		SiL (Silt Loam)				
S (Shoulder Slope)	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	MOIST VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	WET NS (Non-sticky) SS (Slightly Sticky) S (Sticky) VS (Very Sticky) NP (Non-plastic) SP (Slightly Plastic)
T (Terrace)		SiC (Silty Clay)				
		C (Clay)				
		O (Organic)				None None

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

NOTES

- HORIZON DEPTH In inches below natural soil surface
 - DEPTH OF FILL In inches from land surface
 - RESTRICTIVE HORIZON Thickness and depth from land surface
 - SAPROLITE S(suitable) or U(unsuitable)
 - SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
 - CLASSIFICATION S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)
- Evaluation of saporlite shall be by pits.
 Long-term Acceptance Rate (LTAR): gal/day/ft²

Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (#####)
 Review (#####)

water in